

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|---|-------------------------------|------------------|---------|------------------|
| S117 | 160544 | (@pd< "20031222" or @ap< "20031224") and (naphthalene light semiconductor).ti. | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:52 |
| S118 | 159754 | (@pd< "20031222" or @ap< "20031224") and (naphthalene and diimide light semiconductor).ti. | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:52 |
| S61 | 78637 | oxide same improve ("hole-transporting" or "hole-transporting") and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/08 14:34 |
| S62 | 74020 | oxide same improve ("hole-transporting" or "hole-transporting") adj proprety and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/08 14:34 |
| S75 | 4432 | 428/690.ccls. | US-PGPUB; USPAT | OR | ON | 2009/07/09 09:27 |
| S53 | 4240 | ("hole injecting" or "hole-transporting" or "hole-injecting" or "hole-transporting" or "hole-injection" or "hole-injection") with cathode and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/08 09:11 |
| S54 | 4056 | ("hole injecting" or "hole-transporting" or "hole-injecting" or "hole-transporting" or "hole-injection" or "hole-injection") with layer with cathode and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/08 09:11 |
| S55 | 3408 | ("hole injecting" or "hole-transporting" or "hole-injecting" or "hole-transporting" or "hole-injection" or "hole-injection") adj layer with cathode and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/08 09:11 |
| S16 | 3028 | electroluminescent and oxide same ("hole-transporting" or "hole-transporting" or "hole-transport") | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/25 11:06 |

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|------|------|--|--------------------|----|-----|---------------------|
| S41 | 2557 | (carbazole with derivative \$5) same amin\$5 | US-PGPUB; USPAT | OR | ON | 2009/06/25 17:14 |
| S76 | 1186 | 428/690.ccls. and electroluminescent and carbazole | US-PGPUB; USPAT | OR | ON | 2009/07/09 09:27 |
| S37 | 1104 | electroluminescent and carbazole same ("amine" or "amino") | US-PGPUB; USPAT | OR | ON | 2009/06/25 16:31 |
| S107 | 800 | (@pd< "20031222" or @ap< "20031224") and (naphthalene).ti. | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:28 |
| S38 | 761 | electroluminescent and carbazole same ("amine" or "amino") same derivative\$5 | US-PGPUB; USPAT | OR | ON | 2009/06/25 16:31 |
| S42 | 628 | (carbazole with derivative) same amin\$3 and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/06/25 17:14 |
| S29 | 546 | "vanadium oxide" same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection") | US-PGPUB; USPAT | OR | ON | 2009/06/25 12:09 |
| S25 | 455 | electroluminescent and "ruthenium oxide" | US-PGPUB; USPAT | OR | ON | 2009/06/25 12:00 |
| S98 | 428 | ("electron injecting") with oxadiazole | US-PGPUB; USPAT | OR | ON | 2009/07/09 17:26 |
| S43 | 308 | (carbazole with derivative) same amin\$3 and electroluminescent and @ay<="2004" | US-PGPUB; USPAT | OR | ON | 2009/06/25 17:15 |
| S30 | 298 | "vanadium oxide" same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection") and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/06/25 12:10 |
| S128 | 183 | (@pd< "20041128" or @ap< "20041130") and electroluminescent and carbazole same oxide | US-PGPUB; USPAT | OR | OFF | 2010/02/04 13:55 |
| S32 | 178 | electroluminescent and carbazole same ("electron-injecting" or "electron injecting" or "electron-injection" or "electron injection") | US-PGPUB; USPAT | OR | ON | 2009/06/25 12:53 |
| S21 | 158 | electroluminescent and "vanadium oxide" same ("hole-transporting" or "hole transporting" or "hole transport") | US-PGPUB; USPAT | OR | ON | 2009/06/25 11:23 |

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| S74 | 141 | anthracene with ("hole transporting" or "hole-transporting") and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/08 17:37 |
| S72 | 132 | fluorene same ("hole-transporting" or "hole-transporting") and electroluminescent | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/08 17:10 |
| S24 | 115 | electroluminescent and "rhenium oxide" | US-PGPUB; USPAT | OR | ON | 2009/06/25 11:26 |
| S27 | 72 | electroluminescent and carbazole same "hole-injecting" | US-PGPUB; USPAT | OR | ON | 2009/06/25 12:03 |
| S26 | 70 | electroluminescent and "ruthenium oxide" same ("hole-transport" or "hole transport" or "hole transporting" or "hole transporting") | US-PGPUB; USPAT | OR | ON | 2009/06/25 12:01 |
| S73 | 66 | fluorene with ("hole-transporting" or "hole-transporting") and electroluminescent | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/08 17:10 |
| S18 | 51 | electroluminescent and transition same "oxide" same ("hole-transporting" or "hole transporting" or "hole transport") | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/25 11:19 |
| S17 | 47 | electroluminescent and "inorganic compound" same "oxide" same ("hole-transporting" or "hole transporting" or "hole transport") | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/25 11:06 |
| S57 | 47 | ("charge generation" or "charge-generating") adj layer with cathode and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/08 09:32 |
| S109 | 46 | (@pd<"20031222" or @ap<"20031224") and (naphthalene).ti. and charge | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:28 |
| S19 | 40 | electroluminescent and transition same "oxide" same ("hole-transporting" or "hole transporting" or "hole transport") | US-PGPUB; USPAT | OR | ON | 2009/06/25 11:19 |
| S5 | 35 | nocera.in. | US-PGPUB; USPAT | OR | ON | 2009/06/24 17:04 |
| S124 | 26 | "5059863" | US-PGPUB; USPAT | OR | OFF | 2009/12/22 14:33 |

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| S22 | 20 | electroluminescent and "vanadium oxide" same "transport layer" | US-PGPUB; USPAT | OR | ON | 2009/06/25 11:25 |
| S64 | 18 | ("5989737" "6486601" "20050084712" "20050098207" "7158161" "20050084713" "20050170208" "20050106419" "20060008740" "6602619" "20040185299" "20050067951" "20050221124" "20050225235" "6423429" "6013384" "6589673" "20030189401").pn. | US-PGPUB; USPAT | OR | ON | 2009/07/08 14:47 |
| S104 | 18 | (@pd< "20031222" or @ap< "20031224") and (naphthalene with diimide \$1) and electroluminescent | US-PGPUB; USPAT | OR | OFF | 2009/12/22 10:59 |
| S84 | 17 | richter.in. and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/09 11:33 |
| S52 | 16 | N-substituted adj carbazole and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/06/29 10:17 |
| S59 | 14 | ("5989737" "6486601" "20050084712" "20050098207" "7158161" "20050084713" "20050170208" "20050106419" "20060008740" "6602619" "20040185299" "20050067951" "20050221124" "20050225235").pn. | US-PGPUB; USPAT | OR | ON | 2009/07/08 13:36 |
| S113 | 14 | (@pd< "20031222" or @ap< "20031224") and (naphthalene).ti. and ("light- emitting" or "light emitting") | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:46 |
| S56 | 12 | ("hole injecting" or "hole transporting" or "hole- injecting" or "hole- transporting" or "hole injection" or "hole- injection") adj layer with cathode with carbazole and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/08 09:23 |
| S108 | 12 | (@pd< "20031222" or @ap< "20031224") and (naphthalene).ti. and charge and electroluminescent | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:28 |

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| S93 | 11 | kanamaru.in. and electroluminescent | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/09 15:10 |
| S34 | 9 | electroluminescent and "kido".in. and ("charge-generation" or "charge-generating" or "charge generation") | US-PGPUB; USPAT | OR | ON | 2009/06/25 13:01 |
| S77 | 7 | ("20080254318" "20050031899" "20070031701" "20070049760" "20090058261" "20080284328" "20090160323").pn. | US-PGPUB; USPAT | OR | ON | 2009/07/09 09:36 |
| S120 | 6 | ("6103446" "6146809" "20010016269" "20010004107" "20030091862" "6114463"). pn. | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:54 |
| S121 | 6 | ("20030165715" "6436558") | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:56 |
| S33 | 5 | electroluminescent and (("charge generation" or "charge-generating" or "charge-generation") adj layer) same "vanadium oxide" | US-PGPUB; USPAT | OR | ON | 2009/06/25 13:00 |
| S105 | 5 | (@pd<"20031222" or @ap<"20031224") and (naphthalene with diimide \$1).ti. | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:18 |
| S106 | 5 | (@pd<"20031222" or @ap<"20031224") and (naphthalene same diimide \$1).ti. | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:21 |
| S119 | 5 | (@pd<"20031222" or @ap<"20031224") and (naphthalene and diimide). ti. | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:53 |
| S58 | 4 | ("5989737" "6486601" 2005/0084712 2005/0098207 "7158161" 2005/0084713 2005/0170208 2005/0106419 2006/0008740 "6602619" 2004/0185299 2005/0067951 2005/0221124 2005/0225235).pn. | US-PGPUB; USPAT | OR | ON | 2009/07/08 13:35 |

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| S63 | 4 | oxide same improve with ("hole-transporting" or "hole transporting") adj property and electroluminescent | US-PGPUB; USPAT | OR | ON | 2009/07/08 14:34 |
| S133 | 4 | (@pd< "20041128" or @ap< "20041130") and kido. in. and "charge generating" | US-PGPUB; USPAT | OR | OFF | 2010/02/04 13:58 |
| S15 | 3 | "10310574" | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/25 10:00 |
| S79 | 3 | "10310574".pn. | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/09 09:53 |
| S114 | 3 | ("20050251930" "20060058330") | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:48 |
| S20 | 2 | "20050206305" | US-PGPUB; USPAT | OR | ON | 2009/06/25 11:22 |
| S39 | 2 | 2004JP-347518 | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/25 16:55 |
| S40 | 2 | "20050225235".pn. | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/25 17:11 |
| S47 | 2 | 2004JP-347518 | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/25 17:43 |
| S48 | 2 | "20050208334".pn. | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/25 17:48 |
| S111 | 2 | "20050131220" | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:44 |
| S112 | 2 | "20030153005" | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:44 |
| S129 | 2 | (@pd< "20041128" or @ap< "20041130") and electroluminescent and carbazole same "vanadium oxide" | US-PGPUB; USPAT | OR | OFF | 2010/02/04 13:56 |
| S134 | 2 | (@pd< "20041128" or @ap< "20041130") and kido. in. and "charge generation" | US-PGPUB; USPAT | OR | OFF | 2010/02/04 13:58 |
| S1 | 1 | "20090058267" | US-PGPUB; USPAT | OR | ON | 2009/06/24 16:24 |
| S2 | 1 | "6617051".pn. | US-PGPUB; USPAT | OR | ON | 2009/06/24 17:00 |
| S3 | 1 | "20040170863".pn. | US-PGPUB; USPAT | OR | ON | 2009/06/24 17:01 |
| S4 | 1 | "20040263069".pn. | US-PGPUB; USPAT | OR | ON | 2009/06/24 17:02 |

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| S6 | 1 | nocera.in. and cobalt | US-PGPUB; USPAT | OR | ON | 2009/06/24 17:05 |
| S8 | 1 | 1998JP-310574 | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/24 17:06 |
| S9 | 1 | 1998JP-310574 | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/25 09:53 |
| S28 | 1 | electroluminescent and "small ionization" same "hole-injection" | US-PGPUB; USPAT | OR | ON | 2009/06/25 12:06 |
| S31 | 1 | "20010022497".pn. | US-PGPUB; USPAT | OR | ON | 2009/06/25 12:12 |
| S35 | 1 | "20050225235".pn. | US-PGPUB; USPAT | OR | ON | 2009/06/25 16:11 |
| S36 | 1 | "20090058267".pn. | US-PGPUB; USPAT | OR | ON | 2009/06/25 16:15 |
| S49 | 1 | "20030129448".pn. | US-PGPUB; USPAT | OR | ON | 2009/06/29 08:49 |
| S50 | 1 | "20050225235" | US-PGPUB; USPAT | OR | ON | 2009/06/29 08:54 |
| S60 | 1 | "20050098207".pn. | US-PGPUB; USPAT | OR | ON | 2009/07/08 13:56 |
| S65 | 1 | "20050225235" | US-PGPUB; USPAT | OR | ON | 2009/07/08 15:12 |
| S66 | 1 | "20030129448" | US-PGPUB; USPAT | OR | ON | 2009/07/08 15:54 |
| S67 | 1 | "20050225235" | US-PGPUB; USPAT | OR | ON | 2009/07/08 15:58 |
| S68 | 1 | "6541129".pn. | US-PGPUB; USPAT | OR | ON | 2009/07/08 16:49 |
| S69 | 1 | "6541129".pn. | US-PGPUB; USPAT | OR | ON | 2009/07/08 16:53 |
| S70 | 1 | 1998JP-234899 | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/08 17:03 |
| S78 | 1 | "20050067951".pn. | US-PGPUB; USPAT | OR | ON | 2009/07/09 09:48 |
| S81 | 1 | "20050098207".pn. | US-PGPUB; USPAT | OR | ON | 2009/07/09 10:00 |
| S82 | 1 | "20050067251".pn. | US-PGPUB; USPAT | OR | ON | 2009/07/09 11:32 |
| S83 | 1 | "20050067251".pn. | US-PGPUB; USPAT | OR | ON | 2009/07/09 11:32 |
| S85 | 1 | "20080284328".pn. | US-PGPUB; USPAT | OR | ON | 2009/07/09 14:40 |
| S86 | 1 | "200056491" | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/09 15:02 |

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| S89 | 1 | "200056491" | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/09 15:02 |
| S90 | 1 | "200056491".pn. | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/09 15:02 |
| S92 | 1 | "200056491" | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/09 15:06 |
| S97 | 1 | 1998JP-234899 | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/07/09 15:17 |
| S99 | 1 | "20040185299" | US-PGPUB; USPAT | OR | ON | 2009/07/13 15:55 |
| S103 | 1 | (@pd<"20031222" or @ap<"20031224") and (naphthalene with diimide \$1) same ("light-emitting" or "light emitting") | US-PGPUB; USPAT | OR | OFF | 2009/12/22 10:58 |
| S110 | 1 | "20070116981" | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:31 |
| S116 | 1 | "20050176970" | US-PGPUB; USPAT | OR | OFF | 2009/12/22 11:52 |
| S122 | 1 | "20040219387" | US-PGPUB; USPAT | OR | OFF | 2009/12/22 12:35 |
| S123 | 1 | "5059863".pn. | US-PGPUB; USPAT | OR | OFF | 2009/12/22 12:39 |
| S125 | 1 | "10584308" | US-PGPUB; USPAT | OR | OFF | 2010/02/04 11:28 |
| S127 | 1 | "10310574" | JPO | OR | OFF | 2010/02/04 13:36 |
| S132 | 1 | (@pd<"20041128" or @ap<"20041130") and electroluminescent and "metal oxides" same arylamines | US-PGPUB; USPAT | OR | OFF | 2010/02/04 13:57 |

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